

# XML/DB interface

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# Proposed XML interface

```
<dbTable TableName="testDBTable"
          TableType="RunSubRun"
          creationDate="031112"
          maintainer=lange6@llnl.gov
          WriteXMLToDB="False"
          OverrideDB="True">
<dbTableColumn> Crate INTEGER </dbTableColumn>
<dbTableColumn> Module INTEGER </dbTableColumn>

<xmlfile> MippDatabase/xml/test/dbentry1.xml </xmlfile>
```

# Proposed XML interface (II)

```
<dbTableEntry TableName="testDBTable"
               TableType="RunSubRun"
               runMin="1"
               runMax="1000"
               creator=lange6@llnl.gov>
<dbRow> 1, 1 </dbRow>
<dbRow> 1, 2 </dbRow>
<dbRow> 2, 5 </dbRow>
</dbTableEntry>
```

# Proposed XML interface (II)

- Classes in MippDatabase/xml
- At end of dbTable entry, a new table is formed and added to dictionary of db tables for further use.

```
MdbTableDict *tableDict=MdbTableDict::Instance();  
MdbTableRunSubRun *table=tableDict->GetTable("testDBTable");
```

- If specified, xml entries will be in cache of table object. Default is to rely on underlying postgres db.
- Loading info into db is handled via xml interface.

# Still needed

- I have a bit more work to do in order to get the database code to function without the database
  - Needed so that the content of the postgres db can be overridden in test/development jobs
- Updated instructions for using the tables
- I hope that before I go back to FNAL on Saturday this will be in a state that it can be used by others.
- Do I need tables other than the two that are currently implemented:
  - Run, Subrun
  - Timestamp